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by A. V. Nasedkin, 2 pp.

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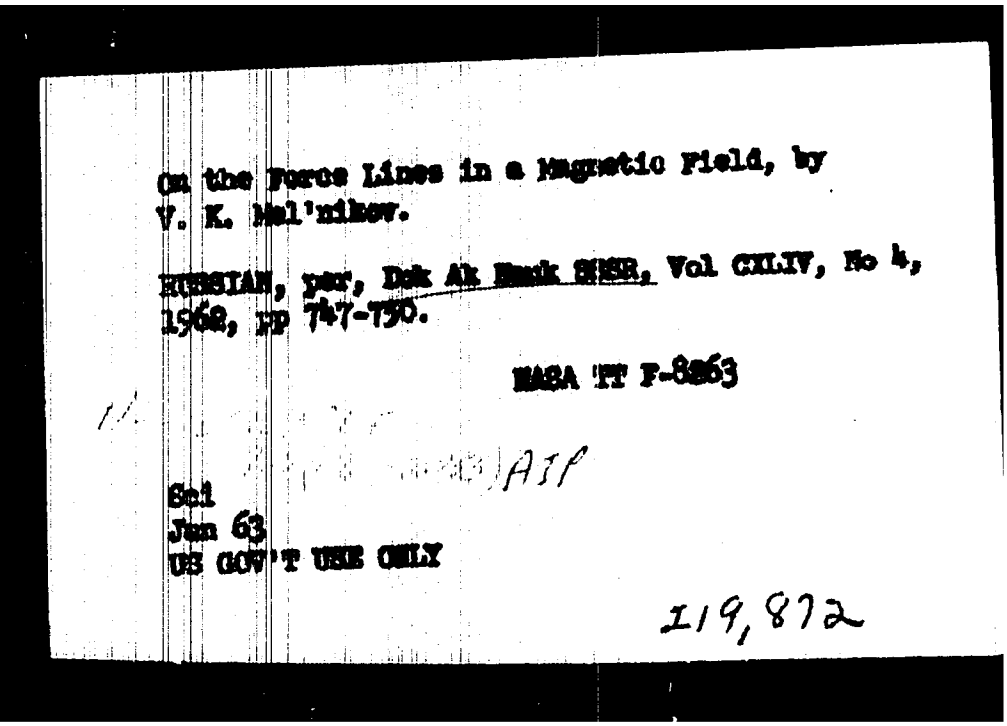

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THE PHYSICAL FOUNDATIONS OF THE CONTROL OF CLOUDS AIMED AT PREVENTING HAIL FALL. [1962].
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Trans. of Akad[emiya] Nauk SSSR. Dokl[ady] 1962, v. 144, no. 4, p. 778-780.

DESCRIPTORS: *Clouds, Precipitation, Control, *Hail, Production.

(Earth Sciences--Meteorology, TT, v. 8, no. 11)

62-34181

I. Sulakvelidze, G. K.
II. ATS-75P62R
III. Associated Technical Services, Inc., East Orange, N. J.

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1962, pp 813-816.
NASA TT F-8848

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Brodskii, A. M., Kalinenko, R. P. and others.
FORMATION MECHANISM OF SECONDARY PRODUCTS IN HIGH TEMPERATURE ETHANE CRACKING.
[1963] 6p. 3 refs.
Order from OTS or SLA $1.10 63-18423

Trans. of Akad[emiya] Nauk SSSR, Doklady, 1962, v. 144 [no. 4] p. 817-820.

DESCRIPTORS: *Ethanes, *Ethylenes, *Methanes, *Acetylenes, *Propanes, *Propenes, *Butanes, *Butenes, *Butadienes, *Chemical reactions, Decomposition, Pyrolysis.

The work was devoted to investigation of the formation mechanism of main secondary products during high temperature cracking of ethane to ethylene. Formation of CH_4, C_2H_2, C_3H_8, C_3H_6, C_4H_{10}, C_4H_8 and C_4H_6 was investigated. (Author)
(Chemistry-Organic) IT, v. 10, no. 8)

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I. Brodskii, A. M.
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B. V. Kazackov, 2 pp.

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Ju. V. Linnik, 3 pp.

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On the Principal Directions of an m-dimensional Surface, by R. R. Mullari, 4 pp.

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RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLIV, No 5,
1962, pp 999-1002.

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VOL [redacted], NO 5, 1962, PP 1003-1006.
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COMPLETENESS OF THE SYSTEM OF UNRELIABLE ELEMENTS REALIZING THE FUNCTIONS OF THE ALGEBRA OF LOGIC, BY A. A. MUCHNIK, S. G. GINDIKIN, 4 PP.

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The Problem of Two-Particle Bound States for a Nonideal Fermi-Dirac System, by V. V. Tolmachev, 4 pp.

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Neutralization of Slow Ions and Deactivation of Mestastable Atoms Close to Metal Surfaces, by V. I. Rydnik, B. M. Yavorski, 3 pp.

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Kolobikhin, V. A., Tyuryaev, L. Ya. and others.
PREPARATION OF 1, 3-BUTADIENE BY OXIDATIVE DEHYDROGENATION OF n-BUTENES. 15 Oct 62, 5p. 2 refs.
Order from OTS or SLA $1.10 63-10095

Trans. of Akad[emiya] Nauk SSSR, Dokl[ady] 1962, v. 144 [no. 5] p. 1053-1055.
Another trans. is available from ATS $5.25 as ATS-77P64R [1962] 3p.

DESCRIPTORS: *Butenes, Oxidation, Dehydrogenation, *Butadienes, Synthesis (Chemistry).

(Chemistry--Organic, TT, v. 9, no. 11)

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I. Kolobikhin, V. A.
II. Tyuryaev, L. Ya.

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The Catalytic Properties of Chelate Polymers,
by G. K. Boreskov, N. P. Keyer, et al, 9 pp

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No 5, 1962, pp 1069-1072. 9668332

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Investigation of the Overvoltage Distribution over the Germanium Electrolyte Interface, by Lazorenko-Manevich.

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*SLA

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Ershler, B.V. and Byakov, V.M.
DE L'APPLICATION DES ÉQUATIONS DE CINÉTIQUE HOMOGÈNE À LA RADIOLYSE AUX HAUTES INTENSITÉS D'IRRADIATION (O Primenimosti Uravnenii Gomogennoi Kinetiki k Radiolizie Pri Vysokikh Intensivnostyakh Izlucheniya) (The Application of Homogenous Kinetic Equations to Radiolysis at High Radiation Intensities). 8p. (foreign text included) 8 refs. CNRS-VIII bis 842.
Order from OTS, ETC or CNRS $1.10 TT-63-26606

Trans. in French of Akademiya Nauk SSSR. Doklady, 1962, v.144, no.5, p.1103-1104.

DESCRIPTORS: Reaction kinetics, *Radiation chemistry, Iron compounds, Sulfates, Electron beams.

(Chemistry--Physical, TT, v. 11, no. 11)

TT-63-26606

I. Ershler, B.V.
II. Byakov, V.M.
III. CNRS-VIII bis 842
IV. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

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Drushchits, V. V. and Shimanskii, V. N.
ON THE MAGNITUDE OF THE PALEOZOIC ERA
(Ob Ob'eme Paleozoiskoi Ery) tr. by Ivan Mittin.
1963 [11]p. 12 refs.
Order from OTS or SLA $1.60 63-19587

Trans. of Akademiya Nauk SSSR, Doklady, 1962,
v. 144, no. 5, p. 1115-1118.

DESCRIPTORS: *Paleontology, *Stratigraphy, Geologic age determination, Geology.

It is proposed that the Paleozoic era be divided not into three but two parts, and that each of these parts be regarded an an independent era. The advisability of such a subdivision of the Paleozoic era is supported with several reasons.

(Earth Sciences--Geology, TT, v. 10, no. 12)

63-19587

1. Title: Paleozoic
I. Drushchits, V. V.
II. Shimanskii, V. N.
III. Geological Survey, Denver, Colo.

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Accumulation and Excretion of Ruthenium-106, Gerium-144, and Promethium-147 by Caddis Halesus Interpunctatus Zett, by A. B. Getsova, G. A. Volkova, 2 pp.

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Over-All Radiosensitivity of Organisms and Sensitivity of Chromosomal Apparatus of Cells in Vitro, by Yu. Ya. Kerkis, L. I. Lebedeva, 4 pp.

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Vol CXLIV, No 5, 1962, pp 1168-1171.

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Cytophysiological Analysis of Intraspecific Differentiation of Takyr Toad Lizards, by B. P. Ushakov, 3 pp.

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Urinary Calculi in the Perch Sebastes Maxrinus L.
and Sebastes Mentella Travin, by K. P. Yanulov, 4 pp.

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Quantitative Analysis of DNA in the Cells of the Stratified Squamous Epithelium in the Guinea Pig (Cytophotometric Investigation), by L. Ya. Zhorno, L. P. Ovchinnikova, 4 pp.

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The Determination of the Position of a Nonlinear Controlled System in Phase Space, by Ja. N. Roitenberg, 5 pp.

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Statistical Approach To Approximate Calculation Methods. Effective Quadrature Formulae, by L. A. Halfin, 4 pp.

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DESIGN OF TESTS FOR BLOCK CIRCUITS, BY
V. V. GLAGOLEN, 8 PP.

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VOL ~~XX~~ CXLIV, NO 6, 1962, PP 1237-1240.

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COMPARISON OF THE COMPLEXITY OF REALIZATION OF MONOTONIC FUNCTIONS WITH CONTACT CIRCUITS CONTAINING ONLY CLOSING CONTACTS AND WITH ARBITRARY CONTACT CIRCUITS, BY O. B. LUPANOV, 10 PP.

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JPRS 16239

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Transport Reversibility Theorem for the Case of an Almost-Free Molecular Flow, by M. N. Kogan, 2 pp.

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by A. G. Prudnikov, V. N. Sagalovich, 3 pp.

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On the Mechanism of Flame Acceleration in the Transition From Normal Burning to Detonation, by L. N. Pyatnitskiy (Presented by Academician L. I. Sedov on February 27, 1962), 9 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXLIV, No 6, 1962, pp 1262-1265. 9667897

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Some Ideas on the Crack Zone and the Crack Front, by V. P. Koryavov, 3 pp.

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The Electron Absorption Spectrum of Crystals of Certain Bichromates at Los Trmperatures, by N. K. Bel'skiy, Sh. K. Mukhtarov, 2 pp.

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